

**Abstract:**

An absorption cooling machine of the type which uses a refrigerant and an absorbent and which includes a high stage generator, absorber, condenser, heat exchangers, and an evaporator and means for connecting the components to one another to form a closed absorption cooling system. The solution side of the high stage generator is fluidically divided into two sections with a partition plate whereby gas exiting one section at relatively high temperature is further cooled in a second section called a flue gas recuperator (FGR) to improve overall burner efficiency.